

Name: _____

p1029: Box multiplication of linear binomials (v16)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(2x + 8)$ and $(4x + 6)$.

*	2x	8	
4x	$8x^2$	32x	
6	12x	48	

ANSWER: $8x^2 + 44x + 48$

Question 2

Use the box method to multiply $(8x + 4)$ and $(-5x - 9)$.

*	8x	4
-5x	$-40x^2$	$-20x$
-9	$-72x$	-36

ANSWER: $-40x^2 - 92x - 36$

Question 3

Use the box method to multiply $(-7x + 3)$ and $(4x - 5)$.

*	-7x	3
4x	$-28x^2$	$12x$
-5	$35x$	-15

ANSWER: $-28x^2 + 47x - 15$